

<i10> Stanton, Jr., Vincent P.

<120> GENE SEQUENCE VARIANCE IN GENES RELATED
 TO FOLATE METABOLISM HAVING UTILITY IN DETERMINING THE
 TREATMENT OF DISEASE

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<140> 09/658,659

<141> 2000-09-08

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<151> 2000-06-15

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<151> 1999-07-20

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<151> 1999-07-19

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<151> 1998-07-20

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<213> Homo sapiens

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<221> misc_feature
<222> 2583
<223> n = t or g
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tegreecte eggagergea egregeerga geaggarggt gecereeage eeageggreg
                                                                                                                                    120
agaagcaggt gecegtggaa cetgggeetg acceegaget eeggteetgg eggeneeteg
                                                                                                                                    180
tgtgctacct ttgcttctac ggcttcatgg cgcagatacg gccaggggag agcttcatca
                                                                                                                                    240
cocctact cetggggcc gacaagaact teacgeggga geaggteacg aacgagatea
                                                                                                                                    300
egeeggtget gtegtactee tacetggeeg tgetggtgee ngtgtteetg eteacegaet
                                                                                                                                    360
                                                                                                                                    420
acctgcgcta cacgccggtg ctgctgctgc aggggctcag cttcgtgtcg gtgtggctgc
tgctgctgct gggccactcg gtggcgcaca tgcagctcat ggagctcttc tacagcgtca
                                                                                                                                    480
                                                                                                                                    540
ccatggcege gegeategee tattectect acatettete tetegtgegg coegegeget
                                                                                                                                    600
accagegigt ggeeggetae tegegegetg eggigetget gggegigtte accageteeg
                                                                                                                                    560
egotgggoda gotgotggto actgtgggod gagtotoott otocacgoto aactacatot
                                                                                                                                    720
equipped to educate the agestigated the educate to educate edu
geotettett caacegegac gaceggggge ggtgcgaaac eteggetteg gagetggage
                                                                                                                                    780
gcatgaatco nggcccaggo gggaagctgg gacacgccct gcgggtggcc tgtggggact
cagtgctggc gcggatgctg cgggagctgg gggacagcct gcggcggccg cagctgcgcc
tgtgqtccct ctggtgggtc ttcaactcgg ccggctacta cctggtggtc tactacgtgc
                                                                                                                                    960
acatectgtg gaacgaggtg gaccecacca ccaacagtge gegggtetae aaeggegegg
                                                                                                                                  1020
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teegetggge gegetggtee aagetgetea tegegggegt caeggeeaeg caggegggge
                                                                                                                                  1140
tggtetteet tetggegeae aegegeeace egageageat etggetgtge tatgeggeet
                                                                                                                                  1200
                                                                                                                                  1260
tegtgetgtt cegeggetee taccagttee tegtgeecat egecacettt cagattgeat
                                                                                                                                  1320
ettetetgte taaagagete tgtgecetgg tetteggggt caacacgtte tttgecacca
tegteaagae cateatnaet tteattgtet eggaegtgeg gggeetggge etceeggtee
                                                                                                                                  1380
gcaagcagtt ccagttatac tccgtgtact tcctgatcct gtccatcatc tacttcttgg
                                                                                                                                  1440
gggccatgct ggatggcctg cggcactgcc agcggggcca ccacccgcgg cagccccgg
                                                                                                                                 1500
                                                                                                                                 1560
cccagggcct gaggagtgcc gcggaggaga aggcagcaca ggcactgagc gtgcaggaca
                                                                                                                                 1620
agggeetegg aggeetgeag ceageceaga gecegeeget tteeceagaa gacageetgg
gggctgtggg gccagcctcc ctggagcaga gacagagcga cccatacctg gcccaggccc
                                                                                                                                 1680
                                                                                                                                 1740
eggeeegga ggeagetgaa tteetgagee eagtgacaae eeetteeece tgeactetgt
```

getecgecca ageoteagge cetgaggetg cagatgagae ttgtececag etggetgtee

	•					
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	-		gegrecacea			2160
						2220
					geetettgga	2280
					agggtgggag	2340
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			gacgtagaat			
			ggcggcagac			2460
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			ctgacctgcg			3580
			gtcaccgngg			2640
			gggggctgcc			2700
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<222> 498	2000020					
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12207 11 - 0	01 0					
<221> misc_	feature					
<222> 579,						
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tgggtaccac						3 60
gccttggggc						420
tccaggggaa 1						480
gctttcggcg 9						540
ccttcctgag						600
cctgctggga						660
acaagccgta						720
gttcggggcg						780
gcggcccagg 9						840
caggaatgca g					,	900
						960
ggggtcagga g						1020
cccgagggac c						1080
ggcccgaggg g						1140
ccgcgtgacc c						1200
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<210> 6

<211> 1536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1066

 $\langle 223 \rangle$ n = t or c

<221> misc_feature

<222> 1136

 $\langle 223 \rangle$ n = a or g

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<210> 7 <211> 1187 <212> DNA <213> Homo sapiens <220> <221> misc_feature <222> 276, 321, 534, 556 <223> n = c or t<221> misc feature <222> 452, 640 <223> n = a or g<221> misc_feature <222> 492, 625 <223> n = c or a<221> misc_feature <222> 458 <223> nucleotide in position 458 is c, or absent

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aagctatttt tggaatattt ttagaatatt ttaagaattt cacaagctat tccctcaaat

ctgagggagc tgagtaacac catcgatcat gatgtagagt gtggttatga actttanagt

<221> misc_feature

 $\langle 223 \rangle$ n = t or a

<222> 1497

<400> 6

σĐ

120

130

240

300

360

420

180

540 500

560 720

780

340

300

350

1020

1080

1140

1200

1260 1320

1380

1440

1500

130

240

300

350

420

480

540

500

720

780

840

900

960

1020

1080

1140

1187

```
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 statetett stateteta ggadagtott getetgtege seaggetgga gtadaatggt
 oggatettqq eteaetgeaa cetetgeete eeaggoteaa qhaastette tgeeteagee
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 catguigted aggoiggiou mgaadtootg acotcaggig atccaddogo otoggodddo
 caaagtacta ggattacagg cgtgagccac cgcgtccagc gccctggcgg tttttaatca
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aagactotea gotgtggccc tgggoteegt tetgtgccae accegtggct cotgogtttto
coortigged acquitateta gagoggggd cgcogcgaco ccgccgagca ggaagaggog
gagogoggga oggoogogg aaaaggogog oggaaggggt ootgooacog ogcoacttgg
catgodiceg toeegoogeg coactigged ageotecyte appeagage acticgcoty
catecgteca cogacogaca egecatacat gtggeogget eggagetgca gcgacogaca
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accggcaccc tgtcggtatt cggcatgcag gcgcgctaca gcctgagagg tgacgccgcg
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<210> 8
<211> 18597
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 701, 13751
<223> n = c or a
<221> misc feature
<222> 716, 1293, 2401, 2429, 2618, 3083, 3125, 3635, 4256, 4898,
      5062, 5167, 11069, 13298, 14479, 14730, 14796, 15344, 15450,
      15503, 15590, 15840, 16149
<223> n = a or g
<221> misc feature
<222> 732, 1379, 1590, 2488, 3212, 5006, 11238, 11422, 11686,
       12598, 13171, 13645, 13782, 13806, 13813, 14586, 14788,
       15042, 15546, 15770
<223> n = c or t
<221> misc_feature
<222> 1322, 1688
<223> n = c or g
<221> misc feature
<222> 2594, 11293, 16199, 16203
<223> n = g or t
<221> misc feature
<222> 3619
<223> n = a or t
<221> misc feature
<222> 14547
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<223> nucleotide in position 14547 is t, or absent

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ctggcggttt	ttaatcaagt	agaaaagctg	cattatacca	cttgcttcgg	ttgcttcagt	540
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			accacaagcg			2460
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3180 3240 3300

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			tecetggaac			3540
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.221> misc feature

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<222> 5440

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